

Listing and Amendments to the Claims

This listing of claims supersedes all previous listing of the claims.

1. (Currently amended) A method for controlling Quality of Service (QoS) levels/service levels within a wired network associated with wireless Local Area Network (LAN), the wired network having different paths for carrying information frames received from at least one mobile terminal user, comprising the steps of:

receiving in the network at least one frame of information;
determining a QoS level/service level for the received frame;
associating with the received frame an identifier that identifies a path through the network having a transmission capability sufficient to provide the determined QoS level/service level, wherein the identifier includes a Virtual Local Area Network (VLAN) number; and
routing the frame in the network in accordance with the associated identifier.

2. (Original) The method according to claim 1 wherein the QoS level/service level is determined from the identity of the mobile terminal user that originated the frame.

3. (Original) The method according to claim 1, wherein the QoS level/service level is determined in accordance with a QoS level/service level request received from the mobile terminal user.

4. (Original) The method according to claim 1 wherein the step of receiving the information frame comprises the step of receiving an IP packet in an Ethernet Frame.

5. (Canceled).

6. (Original) The method according to claim 1 wherein the step of routing the frame comprises the step of routing the frame to one of a plurality of separate destinations.

7. (Original) The method according to claim 1 wherein the step of routing the frame comprises the step of routing the frame to one destination across a selected one of a plurality of interfaces.

8. (Currently amended) A wireless Local Area Network (LAN) for routing received information frames, comprising:

at least one Access Point for receiving radio traffic from at least one mobile terminal and for communicating such traffic in the form of at least one information frame;

an administrative gateway for establishing a Quality of Service level/service level for the one information frame and for instructing the Access Point to assign an identifier to the frame that identifies a path thorough the network having transmission capability in accordance with the QoS level/service level established for the frame, wherein the identifier comprises a Virtual Local Area Network (VLAN) number; and

a switch for routing the frame to a destination selected in accordance with the assigned identifier,

9. (Currently amended) The wireless LAN according to claim 8, wherein the switch comprises a Virtual Local Area Network (VLAN) capable Ethernet switch, ~~and wherein the identifier assigned to the frame comprises a VLAN number.~~

10. (Original) The wireless LAN according to claim 8 further including a plurality of routing gateways, each comprising a destination for the frame routed by the switch in accordance with the identifier assigned to the frame.

11. (Original) The wireless LAN according to claim 8 further including a routing gateway, having a plurality of interfaces, each interface providing a path for carrying a frame routed by the switch in accordance with the identifier assigned to the frame.